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Bibliography
... and Shells With Application to **Liquid Containers**, Ph.D. Dissertation, ... WL, A Coupled **FEM** BEM for Fluid-Structure Interaction using Ritz Vectors and ...
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[XLS] Abbreviations
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... **FEM**. 688. FEMALE BRITISH STANDARD PIPE. FBSP. 689. FEMALE COUPLER ... **LIQUID** CONTROLS. LQC. 1136. **LIQUID** LEVEL GAGE. LLG. 1137. **LIQUID-FILLED** ...
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Solution of **fluid** dynamic problems by **finite elements**
... Date: 00/1975 Category: **Fluid** Mechanics and Heat Transfer Origin: STI NASA/STI

Keywords: **FINITE ELEMENT** METHOD, INCOMPRESSIBLE **FLUIDS**, LIQUID SLOSHING, ...
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1 Smoke, water & goop: A method for animating viscoelastic fluids

Tolga G. Goktekin, Adam W. Bargteil, James F. O'Brien

August 2004 **ACM Transactions on Graphics (TOG)**, Volume 23 Issue 3

Full text available: pdf(390.11 KB) mov(18:29 MIN) Additional Information: full citation, abstract, references, index terms

This paper describes a technique for animating the behavior of viscoelastic fluids, such as mucus, liquid soap, pudding, toothpaste, or clay, that exhibit a combination of both fluid and solid characteristics. The technique builds upon prior Eulerian methods for animating incompressible fluids with free surfaces by including additional elastic terms in the basic Navier-Stokes equations. The elastic terms are computed by integrating and advecting strain-rate throughout the fluid. Transition from ...

Keywords: Natural phenomena, computational fluid dynamics, elastoplastic, glop, goop, physically based animation, viscoelastic fluids, viscous fluids

2 Physically based modeling and animation of fire

Duc Quang Nguyen, Ronald Fedkiw, Henrik Wann Jensen

July 2002 **ACM Transactions on Graphics (TOG) , Proceedings of the 29th annual conference on Computer graphics and interactive techniques**, Volume 21 Issue 3

Full text available: pdf(684.59 KB) Additional Information: full citation, abstract, references, citings, index terms

We present a physically based method for modeling and animating fire. Our method is suitable for both smooth (laminar) and turbulent flames, and it can be used to animate the burning of either solid or gas fuels. We use the incompressible Navier-Stokes equations to independently model both vaporized fuel and hot gaseous products. We develop a physically based model for the expansion that takes place when a vaporized fuel reacts to form hot gaseous products, and a related model for the similar ex ...

Keywords: blackbody radiation, chemical reaction, fire, flames, implicit surface, incompressible flow, smoke, stable fluids, vorticity confinement

3 Stable fluids

Jos Stam

July 1999 **Proceedings of the 26th annual conference on Computer graphics and interactive techniques**

Full text available: pdf(1.33 MB) Additional Information: full citation, references, citings, index terms

Keywords: Navier-Stokes, advected textures, animation of fluids, gaseous phenomena, implicit elliptic PDE solvers, interactive modeling, stable solvers

4 Surface modeling with oriented particle systems

Richard Szeliski, David Tonnesen

July 1992 **ACM SIGGRAPH Computer Graphics , Proceedings of the 19th annual conference on Computer graphics and interactive techniques**, Volume 26 Issue 2

Full text available: pdf(4.15 MB) Additional Information: full citation, references, citings, index terms

Keywords: oriented particles, particle systems, physically-based modeling, self-organizing systems, surface interpolation

5 Natural phenomena: Melting and flowing

Mark Carlson, Peter J. Mucha, R. Brooks Van Horn, Greg Turk

July 2002 **Proceedings of the 2002 ACM SIGGRAPH/Eurographics symposium on Computer animation**

Full text available: pdf(4.77 MB) Additional Information: full citation, abstract, references, citings

We present a fast and stable system for animating materials that melt, flow, and solidify. Examples of real-world materials that exhibit these phenomena include melting candles, lava flow, the hardening of cement, icicle formation, and limestone deposition. We animate such phenomena by physical simulation of fluids --- in particular the incompressible viscous Navier-Stokes equations with free surfaces, treating solid and nearly-solid materials as very high viscosity fluids. The computational met ...

Keywords: animation, computational fluid dynamics, melting, solidifying

6 Motion patterns: Layered dynamic control for interactive character swimming

Po-Feng Yang, Joe Laszlo, Karan Singh

August 2004 **Proceedings of the 2004 ACM SIGGRAPH/Eurographics symposium on Computer animation**

Full text available: pdf(1.71 MB) Additional Information: full citation, abstract, references, index terms

This paper proposes a layered strategy for controlling character motion in a dynamically varying environment. We illustrate this approach in the context of a physically simulated human swimmer. The swimmer attempts to follow a dynamic target by augmenting cyclic stroke control with a set of pre-specified variations, based on the current state of the character and its environment. Control of a given swim stroke is decomposed into three layers: a basic stroke sequence, a set of per-stroke contr ...

7 A parallel dynamic-mesh Lagrangian method for simulation of flows with dynamic interfaces

Noel J. Walkington, James F. Antaki, Guy E. Blelloch, Omar Ghattas, Iran Melcevic, Gary L. Miller

November 2000 **Proceedings of the 2000 ACM/IEEE conference on Supercomputing (CDROM)**

Full text available: pdf(874.03 KB) Additional Information: full citation, abstract, references, citings, index terms

Publisher Site

Many important phenomena in science and engineering, including our motivating problem of microstructural blood flow, can be modeled as flows with dynamic interfaces. The major challenge faced in simulating such flows is resolving the interfacial motion. Lagrangian methods are ideally suited for such problems, since interfaces are naturally represented and propagated. However, the material description of motion results in dynamic meshes, which become hopelessly distorted unless they are regu ...

8 Large mesh generation from boundary models with parametric face representation

Reinhard Klein, Wolfgang Straber

December 1995 **Proceedings of the third ACM symposium on Solid modeling and applications**

Full text available: pdf(909.89 KB) Additional Information: full citation, references, citings, index terms

Keywords: boundary representation, finite elements, incremental Delaunay triangulation, meshing, rendering, stereolithography

9 Dynamics & modeling: Rigid fluid: animating the interplay between rigid bodies and fluid

Mark Carlson, Peter J. Mucha, Greg Turk

August 2004 **ACM Transactions on Graphics (TOG)**, Volume 23 Issue 3

Full text available: pdf(526.54 KB) mov(24:41 MIN) Additional Information: full citation, abstract, references, index terms

We present the *Rigid Fluid* method, a technique for animating the interplay between rigid bodies and viscous incompressible fluid with free surfaces. We use distributed Lagrange multipliers to ensure two-way coupling that generates realistic motion for both the solid objects and the fluid as they interact with one another. We call our method the *rigid fluid* method because the simulator treats the rigid objects as if they were made of fluid. The rigidity of such an object is maintain ...

Keywords: computational fluid dynamics, physically based animation, rigid bodies, two-way coupling

10 Computational models: States of matter, information organization and dimensions of expressiveness

Marion G. Ceruti

April 2004 **Proceedings of the 1st conference on Computing frontiers**

Full text available: pdf(146.14 KB) Additional Information: full citation, abstract, references, index terms

This paper expands the concept of "states of information" as analogous to states of matter. It introduces new ideas on the expressiveness of information systems and how information is organized in these systems. By taking advantage of the isomorphism that exists between states of matter and states of information, we can begin to understand new ways to characterize and measure information systems. This paper is the second in a series of papers in the newly emerging and interdisciplinary field of ...

Keywords: database, expressiveness, infodynamics, knowledge base, model base, states of matter

11 A method of interactive visualization of CAD surface models on a color video display

Peter R. Atherton

August 1981 **ACM SIGGRAPH Computer Graphics , Proceedings of the 8th annual conference on Computer graphics and interactive techniques**, Volume 15 Issue 3

Full text available: pdf(987.48 KB) Additional Information: full citation, abstract, references, citings, index terms

To introduce rendered surface display technology into the production design environment, many CAD operations envision a single color video display device for download processing of selected model pictures. Creation of a single image from a typical industrial CAD model involving a large number of higher order curved surfaces will normally require a minimum of several minutes' delay for data acquisition and visible surface computation. This paper describes a method that exten ...

Keywords: Color video display, Computer graphics, Computer-aided design, Depth buffer, Geometric modeling, Hidden surface removal

12 Elastically deformable models

Demetri Terzopoulos, John Platt, Alan Barr, Kurt Fleischer

August 1987 **ACM SIGGRAPH Computer Graphics , Proceedings of the 14th annual conference on Computer graphics and interactive techniques**, Volume 21 Issue 4

Full text available: pdf(4.88 MB) Additional Information: full citation, abstract, references, citings, index terms

The theory of elasticity describes deformable materials such as rubber, cloth, paper, and flexible metals. We employ elasticity theory to construct differential equations that model the behavior of non-rigid curves, surfaces, and solids as a function of time. Elastically deformable models are active: they respond in a natural way to applied forces, constraints, ambient media, and impenetrable obstacles. The models are fundamentally dynamic and realistic animation is created by numerically solvin ...

13 Natural phenomena: A hybrid algorithm for modeling ice formation

Theodore Kim, Michael Henson, Ming C. Lin

August 2004 **Proceedings of the 2004 ACM SIGGRAPH/Eurographics symposium on Computer animation**

Full text available: pdf(502.67 KB) Additional Information: full citation, abstract, references, index terms

We present a novel algorithm that simulates ice formation. Motivated by the physical process of ice growth, we develop a novel hybrid algorithm by synthesizing three techniques: diffusion limited aggregation, phase field methods,

and stable fluid solvers. Each technique maps to one of the three stages of solidification. The visual realism of the resulting algorithm appears to surpass that of each technique alone, particularly in animations of freezing. In addition, we present a faster, simpli ...

14 Modeling water for computer animation

Nick Foster, Dimitris Metaxas

July 2000 **Communications of the ACM**, Volume 43 Issue 7

Full text available: pdf(680.79 KB) html(30.76 KB) Additional Information: full citation, references, citings, index terms

15 Adaptive nonlinear congestion controller for a differentiated-services framework

Andreas Pitsillides, Petros Ioannou, Marios Lestas, Loukas Rossides

February 2005 **IEEE/ACM Transactions on Networking (TON)**, Volume 13 Issue 1

Full text available: pdf(786.84 KB) Additional Information: full citation, abstract, references, index terms

The growing demand of computer usage requires efficient ways of managing network traffic in order to avoid or at least limit the level of congestion in cases where increases in bandwidth are not desirable or possible. In this paper we developed and analyzed a generic Integrated Dynamic Congestion Control (IDCC) scheme for controlling traffic using information on the status of each queue in the network. The IDCC scheme is designed using nonlinear control theory based on a nonlinear model of the n ...

Keywords: ATM, congestion control, differentiated-services framework, internet, nonlinear adaptive control theory

16 Heads, faces, hair: A practical model for hair mutual interactions

Johnny T. Chang, Jingyi Jin, Yizhou Yu

July 2002 **Proceedings of the 2002 ACM SIGGRAPH/Eurographics symposium on Computer animation**

Full text available: pdf(2.41 MB) Additional Information: full citation, abstract, references, citings

Hair exhibits strong anisotropic dynamic properties which demand distinct dynamic models for single strands and hair-hair interactions. While a single strand can be modeled as a multibody open chain expressed in generalized coordinates, modeling hair-hair interactions is a more difficult problem. A dynamic model for this purpose is proposed based on a sparse set of guide strands. Long range connections among the strands are modeled as breakable static links formulated as nonreversible positional ...

Keywords: collision detection, hair animation, hair rendering, hair-hair interaction, open chain, static links

17 Link-sharing and resource management models for packet networks

Sally Floyd, Van Jacobson

August 1995 **IEEE/ACM Transactions on Networking (TON)**, Volume 3 Issue 4

Full text available: pdf(2.51 MB) Additional Information: full citation, references, citings, index terms

18 Fluids: Directable photorealistic liquids

N. Rasmussen, D. Enright, D. Nguyen, S. Marino, N. Sumner, W. Geiger, S. Hoon, R. Fedkiw

August 2004 **Proceedings of the 2004 ACM SIGGRAPH/Eurographics symposium on Computer animation**

Full text available: pdf(468.25 KB) Additional Information: full citation, abstract, references, index terms

We present a method for the directable animation of photorealistic liquids using the particle level set method to obtain smooth, visually pleasing complex liquid surfaces. We also provide for a degree of control common to particle-only based simulation techniques. A variety of directable liquid primitive variables, including the isosurface value, velocity, and viscosity, can be set throughout the liquid. Interaction of thin liquid sheets with immersed rigid bodies is improved with newly propo ...

19 Numerical simulation of freckle formation in directional solidification of binary alloys

S. D. Felicelli, J. C. Heinrich, D. R. Poirier

December 1992 **Proceedings of the 1992 ACM/IEEE conference on Supercomputing**

Full text available: pdf(690.33 KB) Additional Information: full citation, references, index terms

20 Modeling inelastic deformation: viscolelasticity, plasticity, fracture

Demetri Terzopoulos, Kurt Fleischer

June 1988 **ACM SIGGRAPH Computer Graphics , Proceedings of the 15th annual conference on Computer graphics and interactive techniques**, Volume 22 Issue 4

Full text available: pdf(6.10 MB) Additional Information: full citation, abstract, references, citings, index terms

We continue our development of physically-based models for animating nonrigid objects in simulated physical environments. Our prior work treats the special case of objects that undergo perfectly elastic deformations. Real materials, however, exhibit a rich variety of inelastic phenomena. For instance, objects may restore themselves to their natural shapes slowly, or perhaps only partially upon removal of forces that cause deformation. Moreover, the deformation may depend on the history of applie ...

Keywords: animation, deformation, dynamics, elasticity, modeling, simulation

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1 TouchCounters: designing interactive electronic labels for physical containers

Paul Yarin, Hiroshi Ishii

May 1999 **Proceedings of the SIGCHI conference on Human factors in computing systems: the CHI is the limit**

Full text available: pdf(1.42 MB) Additional Information: full citation, abstract, references, citings, index terms

We present TouchCounters, an integrated system of electronic modules, physical storage containers, and shelving surfaces for the support of collaborative physical work. Through physical sensors and local displays, TouchCounters record and display usage history information upon physical storage containers, thus allowing access to this information during the performance of real-world tasks. A distributed communications network allows this data to be exchanged with a server, such that us ...

Keywords: distributed sensing, tangible interfaces, ubiquitous computing, visualization

2 Papers: Off the wall: Fluid interaction with high-resolution wall-size displays

François Guimbretière, Maureen Stone, Terry Winograd

November 2001 **Proceedings of the 14th annual ACM symposium on User interface software and technology**

Full text available: pdf(1.34 MB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes new interaction techniques for direct pen-based interaction on the Interactive Mural, a large (6'x3.5') high resolution (64 dpi) display. They have been tested in a digital brainstorming tool that has been used by groups of professional product designers. Our "interactive wall" metaphor for interaction has been guided by several goals: to support both free-hand sketching and high-resolution materials, such as images, 3D models and GUI application windows; to pres ...

Keywords: FlowMenu, Large displays, interactive wall

3 Tangible bits: towards seamless interfaces between people, bits and atoms
Hiroshi Ishii, Brygg Ullmer
March 1997 **Proceedings of the SIGCHI conference on Human factors in computing systems**
Full text available: pdf(1.06 MB) Additional Information: full citation, references, citings, index terms

Keywords: ambient media, augmented reality, center and periphery, foreground and background, graspable user interface, tangible user interface, ubiquitous computing

4 Emancipated pixels: real-world graphics in the luminous room
John Underkoffler, Brygg Ullmer, Hiroshi Ishii
July 1999 **Proceedings of the 26th annual conference on Computer graphics and interactive techniques**
Full text available: pdf(613.18 KB) Additional Information: full citation, references, citings, index terms

Keywords: CAD, architectural space, computer vision, luminous-tangible interfaces, projection, real-world graphics

5 Interface design based on standardized task models
Larry Birnbaum, Ray Bareiss, Tom Hinrichs, Christopher Johnson
January 1997 **Proceedings of the 3rd international conference on Intelligent user interfaces**
Full text available: pdf(1.13 MB) Additional Information: full citation, references, index terms

Keywords: model-based interface design tools, task analysis

6 Versioning and fragmentation: Fine-grained, structured configuration management for web projects
Tien Nhut Nguyen, Ethan Vincent Munson, Cheng Thao
May 2004 **Proceedings of the 13th international conference on World Wide Web**
Full text available: pdf(698.15 KB) Additional Information: full citation, abstract, references, citings, index terms

Researchers in Web engineering have regularly noted that existing Web application development environments provide little support for managing the evolution of Web applications. Key limitations of Web development environments include line-oriented change models that inadequately represent Web document semantics and in ability to model changes to link structure or the set of objects making up the Webapplication. Developers may find it difficult to grasp how theoverall structure of the Web applica ...

Keywords: software configuration management, version control, web engineering

7 Form-giving: expressing the nonobvious
Gerda Smets, Kees Overbeeke, William Gaver

April 1994 **Proceedings of the SIGCHI conference on Human factors in computing systems: celebrating interdependence**

Full text available: pdf(927.31 KB) Additional Information: full citation, references, citings, index terms

Keywords: affordances, ecological approaches, formgiving, interface design, visualization

8 Transient dynamics simulations: parallel algorithms for contact detection and smoothed particle hydrodynamics

Steve Plimpton, Bruce Hendrickson, Steve Attaway, Jeff Swegle, Courtenay Vaughan, Dave Gardner

November 1996 **Proceedings of the 1996 ACM/IEEE conference on Supercomputing (CDROM) - Volume 00**

Full text available: pdf(523.57 KB) Additional Information: full citation, abstract, references, citings, index terms

Transient dynamics simulations are commonly used to model phenomena such as car crashes, underwater explosions, and the response of shipping containers to high-speed impacts. Physical objects in such a simulation are typically represented by Lagrangian meshes because the meshes can move and deform with the objects as they undergo stress. Fluids (gasoline, water) or fluid-like materials (earth) in the simulation can be modeled using the techniques of smoothed particle hydrodynamics. Implemen ...

9 Special section: Reasoning about structure, behavior and function

B. Chandrasekaran, Rob Milne

July 1985 **ACM SIGART Bulletin**, Issue 93

Full text available: pdf(5.13 MB) Additional Information: full citation, abstract, references

The last several years' of work in the area of knowledge-based systems has resulted in a deeper understanding of the potentials of the current generation of ideas, but more importantly, also about their limitations and the need for research both in a broader framework as well as in new directions. The following ideas seem to us to be worthy of note in this connection.

10 Using Eclipse to demonstrate positive static assurance of Java program concurrency design intent

Aaron Greenhouse, T. J. Halloran, William L. Scherlis

October 2003 **Proceedings of the 2003 OOPSLA workshop on eclipse technology eXchange**

Full text available: pdf(375.75 KB) Additional Information: full citation, abstract, references

Assuring and evolving concurrent programs requires understanding the concurrency-related design decisions used in their implementation. Source code often does not reveal these design decisions because they may not have purely local manifestations in the code, or because they cannot be inferred from code. As a result, this design intent is usually not expressed, and it is therefore generally infeasible to assure that concurrent programs are free of race conditions.We describe a prototype Eclipse- ...

11 Web-based simulation

Paul A. Fishwick

December 1997 **Proceedings of the 29th conference on Winter simulation**

Full text available: pdf(328.42 KB) Additional Information: full citation, references, citings, index terms

12 Computing moments of objects enclosed by piecewise polynomial surfaces
Carlos Gonzalez-Ochoa, Scott McCammon, Jörg Peters
July 1998 **ACM Transactions on Graphics (TOG)**, Volume 17 Issue 3

Full text available: pdf(705.67 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Combining a polynomial free-form surface representation with Gauss' divergence theorem allows efficient and exact calculation of the moments of the enclosed objects. For example, for an cubic representation, volume, center of mass, and the inertia tensor can be computed in seconds even for complex objects with serval thousand patches while change due to local modification of the surface geometry can be computed in real-time as feedback for animation or design. Speed and simplicity of the ap ...

Keywords: CAD/CAM, animation techniques, geometic modeling, interactive techniques, splines and surfaces, university education, virtual/interactive environments

13 Linux in Education: Linux at the University
Kevin K. Gifford
September 2000 **Linux Journal**

Full text available: html(33.25 KB) Additional Information: full citation, abstract, references, index terms

In outer space, on the ground, and in the classroom: an overview of several exciting real-world applications developed under Linuxstudents and researchers at the University of Colorado in Boulder.

14 Mixed reality hypermedia: HyperReal: a hypermedia model for mixed reality
Luis Romero, Nuno Correia
August 2003 **Proceedings of the fourteenth ACM conference on Hypertext and hypermedia**

Full text available: pdf(321.04 KB) Additional Information: full citation, abstract, references, citings, index terms, review

This paper describes a generic hypermedia model that is used as a framework for building context aware and mixed reality applications. It can handle different media elements, and it defines a presentation scheme that abstracts several relevant navigation concepts, including link awareness. The model specifies a base structure for the relation between spaces, either real or virtual, and supports contextual mechanisms. Additionally, it establishes a way to correlate real/virtual world objects with ...

Keywords: history, hypermedia interfaces, hypermedia model, mixed and augmented reality, mobile gaming and storytelling

15 Session 5: Distributed storage: Deferring trust in fluid replication
Brian D. Noble, Ben Fleis, Landon P. Cox
September 2000 **Proceedings of the 9th workshop on ACM SIGOPS European workshop: beyond the PC: new challenges for the operating system**

Full text available: pdf(94.01 KB) Additional Information: full citation, abstract, references, citings

Mobile nodes rely on external services to provide safety, sharing, and additional resources. Unfortunately, as mobile nodes move through the networking infrastructure, the costs of accessing servers change. Fluid replication allows mobile clients to create replicas where and when they are needed. Unfortunately, one must trust the nodes holding these replicas, and establishing trust in autonomously administered nodes is a difficult task. Instead, we argue that trust should be *deferred.* In ...

16 Session 3: 3D virtual clothing: from garment design to web3d visualization and simulation

Luca Chittaro, Demis Corvaglia

March 2003 **Proceeding of the eighth international conference on 3D Web technology**

Full text available: pdf(3.06 MB) Additional Information: full citation, abstract, references, index terms

One of the major challenges in Computer Graphics concerns the 3D representation and physically-based simulation of garments. In our research, we are working closely with the textile industry, investigating three different classes of problems. First, we aim at developing techniques and methods for cloth simulation specifically aimed at the Web3D context. Second, we are defining a cross-application data exchange format among the different CAD systems and applications used in the textile industry, ...

Keywords: CAD tools for garment design, VRML/Java, XML, cross-application data exchange format for the textile industry, physically-based simulation, product visualization, virtual clothing

17 A framework for distributed object-oriented multimodeling and simulation

Robert M. Cubert, Paul A. Fishwick

December 1997 **Proceedings of the 29th conference on Winter simulation**

Full text available: pdf(954.65 KB) Additional Information: full citation, references, index terms

18 Session VII: A knowledge engineering approach to natural language understanding

Stuart C. Shapiro, Jeannette G. Neal

June 1982 **Proceedings of the 20th annual meeting on Association for Computational Linguistics**

Full text available: pdf(792.67 KB) Additional Information: full citation, abstract, references

Publisher Site

This paper describes the results of a preliminary study of a Knowledge Engineering approach to Natural Language Understanding. A computer system is being developed to handle the acquisition, representation, and use of linguistic knowledge. The computer system is rule-based and utilizes a semantic network for knowledge storage and representation. In order to facilitate the interaction between user and system, input of linguistic knowledge and computer responses are in natural language. Knowledge ...

19 Special issue: AI in engineering

D. Sriram, R. Joobbani

January 1985 **ACM SIGART Bulletin**, Issue 91

Full text available: pdf(8.79 MB) Additional Information: full citation, abstract

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

20 Ubiquitous computing (UC): Fluid: supporting a transportable and adaptive web service

I Made (Dennis) Pratistha, Arkady Zaslavsky

March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**

Full text available: pdf(248.22 KB) Additional Information: full citation, abstract, references

Web services introduce new capabilities in the distributed application development model. This model is built on widely used internet standards, thereby presenting interoperability among different platforms. However, there are still several restrictions within the current standards, for instance, lack of the capability to react swiftly given poor-performance or requirements of maintenance on the host that is executing the web service. This paper proposes a nomadic and resource-aware web service ...

Keywords: Web service, code mobility, context aware

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IEEE JNL IEEE Journal or Magazine

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IEEE CNF IEEE Conference Proceeding

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IEEE STD IEEE Standard

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Volume 44, Issue 3, May 1997 Page(s):538 - 547
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23-26 May 1989 Page(s):246 - 249 vol.1
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Volume 2, 23-26 Oct. 2002 Page(s):1278 - 1279 vol.2
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Magnetics, IEEE Transactions on
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Weidong Zhu; Barbarossa, G.; Di Yang; Lin, C.;
Components and Packaging Technologies, IEEE Transactions on [see also Components, Packaging and Manufacturing Technology, Part A: Packaging Technologies, IEEE Transactions on]
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Ultrasonics, Ferroelectrics and Frequency Control, IEEE Transactions on
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☐ **15. A finite element model for simulating acoustic streaming in cystic breast lesions with experimental validation**
Nightingale, K.R.; Trahey, G.E.;
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Volume 47, Issue 1, Jan. 2000 Page(s):201 - 214
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☐ **16. A complete finite element-eigenmode analysis for a 1-3 type of piezoelectric composite transducer including the effect of fluid loading and internal losses**
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Lerch, R.; Landes, H.; Friedrich, W.; Hebel, R.; Hoss, A.; Kaarmann, H.;
Ultrasonics Symposium, 1992. Proceedings., IEEE 1992
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Mukherjee, N.; Wayne, J.S.;
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Volume 2, 1-4 Nov. 1994 Page(s):1021 - 1025 vol.2
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Aliabadi, S.; Shujaee, K.; Tezduyar, T.;
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Volume 3, 11-14 Sept. 2000 Page(s):1887 - 1894 vol.3
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☐ **23. Finite element mathematical model of fluid and solute transport in hemofiltration membranes**
Conrad, S.A.; Bidani, A.;
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Mechatronics, IEEE/ASME Transactions on
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5	INZZ	1 AND filled	unrestricted	1	show titles
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